

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Canceled)

Claim 2 (Currently Amended): ~~A method as claimed in claim 1,~~ A moving-window, histogram equalization method of processing images, the method comprising:

breaking the image into a plurality of tiles; and

processing each of the plurality of tiles by:

obtaining a control parameter, wherein obtaining the control parameter includes obtaining a first control parameter and processing the first control parameter and the concentration ratio to obtain a second control parameter[.];

determining a histogram for one of the plurality of tiles;

determining a concentration ratio for one of the plurality of tiles;

determining an area of the image that includes the one of the plurality of tiles and information outside the one of the plurality of tiles;

creating a first output by performing a histogram equalization on the area;

creating a second output based on the control parameter and the first output;

and

using the second output to process the one of the plurality of tiles.

Claim 3 (Currently Amended): A method as claimed in claim ~~1~~ 2, wherein creating the first output includes creating a first look-up table and creating the second output includes creating a second look-up table.

Claim 4 (Currently Amended): A method as claimed in claim ~~1~~ 2, wherein the area includes the one of the plurality of tiles and one or more portions of other tiles in the plurality of tiles.

Claim 5 (Currently Amended): A method as claimed in claim ~~1~~ 2, wherein obtaining a first control parameter includes obtaining a control parameter from a user.

Claim 6 (Currently Amended): A method as claimed in claim ~~1~~ 2, wherein determining a concentration ratio for the one of the plurality of tiles includes scaling a concentration ratio value.

Claim 7 (Previously Presented): A method as claimed in claim 2, wherein processing the first control parameter and the concentration ratio to obtain a second control parameter includes determining a mathematical root of the group of the first control parameter, the concentration ratio, or both.

Claim 8 (Previously Presented): A method as claimed in claim 2, wherein processing the first control parameter and the concentration ratio to obtain a second control parameter includes multiplying one of the group of the first control parameter, the concentration ratio, or both by a number.

Claim 9 (Previously Presented): A method as claimed in claim 2, wherein processing the first control parameter and the concentration ratio to obtain a second control parameter includes combining the first control parameter and the concentration ratio.

Claim 10 (Canceled)

Claim 11 (Canceled)

Claim 12 (Canceled)

Claim 13 (Currently Amended): A system as claimed in claim ~~10~~ 17, wherein creating the first set of values includes creating a first look-up table and creating the second output includes creating a second look-up table.

Claim 14 (Currently Amended): A system as claimed in claim ~~10~~ 17, wherein the area includes the one of the plurality of tiles and one or more portions of other tiles in the plurality of tiles.

Claim 15 (Canceled)

Claim 16 (Currently Amended): A system as claimed in claim ~~10~~ 17, wherein determining a concentration ratio for the one of the plurality of tiles includes scaling a concentration ratio value.

Claim 17 (Currently Amended): ~~A system as claimed in claim 10;~~ A system for processing images using a moving-window, histogram equalization technique, the system comprising:

a processor configured to break an image into a plurality of tiles and process each of the plurality of tiles by:

obtaining a first control parameter;

determining a histogram for one of the plurality of tiles;

determining a concentration ratio for the one of the plurality of tiles;

processing the first control parameter and the concentration ratio to obtain a second control parameter, wherein processing the first control parameter and the concentration ratio to obtain a second control parameter includes determining a mathematical root of the group of the first control parameter, the concentration ratio, or both[.];

determining an area of the image that includes the one of the plurality of tiles and information outside the one of the plurality of tiles;

creating a first set of values by performing a histogram equalization on the area;

creating a second set of values based on the second control parameter and the first set of values; and

using a second set of values to process the one of the plurality of tiles.

Claim 18 (Currently Amended): ~~A system as claimed in claim 10;~~ A system for processing images using a moving-window, histogram equalization technique, the system comprising:

a processor configured to break an image into a plurality of tiles and process each of the plurality of tiles by:

obtaining a first control parameter;

determining a histogram for one of the plurality of tiles;

determining a concentration ratio for the one of the plurality of tiles;

processing the first control parameter and the concentration ratio to obtain a second control parameter, wherein processing the first control parameter and the concentration ratio to obtain a second control parameter includes multiplying one of the group of the first control parameter, the concentration ratio, or both by a number[.];

determining an area of the image that includes the one of the plurality of tiles and information outside the one of the plurality of tiles;

creating a first set of values by performing a histogram equalization on the area;

creating a second set of values based on the second control parameter and the first set of values; and

using a second set of values to process the one of the plurality of tiles.

Claim 19 (Currently Amended): ~~A system as claimed in claim 10 7,~~ A system for processing images using a moving-window, histogram equalization technique, the system comprising:

a processor configured to break an image into a plurality of tiles and process each of the plurality of tiles by:

obtaining a first control parameter;

determining a histogram for one of the plurality of tiles;

determining a concentration ratio for the one of the plurality of tiles;

processing the first control parameter and the concentration ratio to obtain a second control parameter, wherein processing the first control parameter and the concentration ratio to obtain a second control parameter includes combining the first control parameter and the concentration ratio[.];

determining an area of the image that includes the one of the plurality of tiles and information outside the one of the plurality of tiles;

creating a first set of values by performing a histogram equalization on the area;
creating a second set of values based on the second control parameter and the first
set of values; and
using a second set of values to process the one of the plurality of tiles.

Claim 20 (Canceled)

Claim 21 (Canceled)

Claim 22 (Canceled)

Claim 23 (Canceled)

Claim 24 (Canceled)

Claim 25 (New): A system as claimed in claim 18, wherein creating the first set of values includes creating a first look-up table and creating the second output includes creating a second look-up table.

Claim 26 (New): A system as claimed in claim 18, wherein the area includes the one of the plurality of tiles and one or more portions of other tiles in the plurality of tiles.

Claim 27 (New): A system as claimed in claim 18, wherein determining a concentration ratio for the one of the plurality of tiles includes scaling a concentration ratio value.

Claim 28 (New): A system as claimed in claim 19, wherein creating the first set of values includes creating a first look-up table and creating the second output includes creating a second look-up table.

Claim 29 (New): A system as claimed in claim 19, wherein the area includes the one of the plurality of tiles and one or more portions of other tiles in the plurality of tiles.

Claim 30 (New): A system as claimed in claim 19, wherein determining a concentration ratio for the one of the plurality of tiles includes scaling a concentration ratio value.